



United States
Department of
Agriculture

Agricultural
Research
Service

Animal
Improvement
Programs
Laboratory

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February 7, 1997

SUBJECT: State List for Nonartificial-Insemination Sires (February 1997)

TO: State Extension Dairy Specialists Advising on Dairy Cattle Breeding

FROM: H.D. Norman, Research Leader, AIPL

H. Duane Norman

Enclosed are February 1997 USDA-DHIA animal model genetic evaluations. In most instances, the owner of the bull is a resident of your State. Animal Improvement Programs Laboratory is supplied the names and addresses of bull owners by all breed associations. Occasionally these associations do not have complete or accurate mailing addresses for some bull owners, especially those owned by syndicates. If you notice any incorrect owner information or are notified by bull owners who did not receive their information, please have them *inform their breed associations* of the correct bull-owner name and address.

Economic values assigned to predicted transmitting abilities (PTA's) in the milk and fat dollars index (MF\$) and in the milk, fat, and protein dollars index (MFP\$) were based on a milk price of \$12.30 per hundredweight of milk with 3.5-percent fat and 3.2-percent protein and differentials of 8.0 cents for fat and 20.0 cents for protein. These values are a prediction of price relationships that will apply when cows from this year's matings are being milked. They are not expected to change until the base change in 2000. Thus,

$$\text{MF\$} = \$0.095 (\text{PTA milk}) + \$0.80 (\text{PTA fat})$$

$$\text{MFP\$} = \$0.031 (\text{PTA milk}) + \$0.80 (\text{PTA fat}) + \$2.00 (\text{PTA protein})$$

The cheese yield economic dollar index (CY\$) is calculated for Ayrshires, Brown Swiss, Holsteins, Milking Shorthorns, and Red and Whites by

$$\text{CY\$} = \$0.002218 (\text{PTA milk}) + \$1.9960 (\text{PTA fat}) + \$1.7299 (\text{PTA protein})$$

and for Guernseys and Jerseys by

$$\text{CY\$} = \$0.002218 (\text{PTA milk}) + \$0.80 (\text{PTA fat}) + \$3.1876 (\text{PTA protein})$$

The PTA's for component percentages were calculated with breed averages for cows born in 1990.

The net merit dollars index (NM\$) is based on MFP\$ discounted for feed cost as well as on PTA's for productive life (PL) and somatic cell score (SCS):

$$\text{NM\$} = .7 (\text{MFP\$}) + \$11.30 (\text{PTA PL}) - \$28.22 (\text{PTA SCS} - \text{breed average SCS})$$

Average first-lactation SCS for cows born in 1990 were:

Ayrshire	3.15	Holstein	3.20
Brown Swiss	3.22	Jersey	3.30
Guernsey	3.35	Milking Shorthorn	2.88

Enclosures